

1223FPC.ST25
SEQUENCE LISTING

<110> ORIDIS BIOMED Forschungs- und Entwicklungs GmbH
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Buck, Charles R.
Zatloukal, Kurt

<120> Polypeptides and nucleic acids encoding these and their use for the prevention, diagnosis or treatment of liver disorders and epithelial cancer

<130> Oridis Biomed

<140> 1223FPC

<141> 2003-09-22

<160> 73

<170> PatentIn version 3.1

<210> 1

<211> 654

<212> PRT

<213> Homo sapiens

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Ile Tyr Asp Val Ser Gly Glu Ser Asn Ser Ala Val Ser Thr Glu Asp
35 40 45

Leu Lys Glu Cys Leu Lys Lys Gln Leu Glu Phe Cys Phe Ser Arg Glu
50 55 60

Asn Leu Ser Lys Asp Leu Tyr Leu Ile Ser Gln Met Asp Ser Asp Gln
65 70 75 80

Phe Ile Pro Ile Trp Thr Val Ala Asn Met Glu Glu Ile Lys Lys Leu
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Thr Thr Asp Pro Asp Leu Ile Leu Glu Val Leu Arg Ser Ser Pro Met
100 105 110

Val Gln Val Asp Glu Lys Gly Glu Lys Val Arg Pro Ser His Lys Arg
115 120 125

Cys Ile Val Ile Leu Arg Glu Ile Pro Glu Thr Thr Pro Ile Glu Glu
130 135 140

Val Lys Gly Leu Phe Lys Ser Glu Asn Cys Pro Lys Val Ile Ser Cys
Page 1

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Glu Phe Ala His	Asn 165	Ser Asn Trp Tyr	Ile 170	Thr Phe Gln Ser Asp Thr 175
Asp Ala Gln Gln	Ala 180	Phe Lys Tyr	Leu 185	Arg Glu Glu Val Lys Thr Phe 190
Gln Gly Lys	Pro 195	Ile Met Ala	Arg 200	Ile Lys Ala Ile Asn Thr Phe Phe 205
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Arg Glu Asp	Asp 385	Arg Ile	Ser 390	Arg Pro His Pro Ser Thr Ala Glu Ser 395

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 Glu Leu Thr Ile Ser Cys Pro Val Pro Ala Asp Glu Gln Thr Glu Cys
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 Phe Arg Gly Asn Ile Ile Pro Arg Gly Ala Ala Gly Lys Ile Arg Glu
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Phe Pro Cys Tyr Thr Gln Gln Ile Leu Thr Glu His Cys Asn Glu Val
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Trp Phe Cys Lys Phe Ser Asn Asp Gly Thr Lys Leu Ala Thr Gly Ser
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Lys Asp Thr Thr Val Ile Ile Trp Gln Val Asp Pro Asp Thr His Leu
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Leu Lys Leu Leu Lys Thr Leu Glu Gly His Ala Tyr Gly Val Ser Tyr
 100 105 110

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 Asp Cys Ser Glu Leu Trp Leu Trp Asn Val Gln Thr Gly Glu Leu Arg
 130 135 140
 Thr Lys Met Ser Gln Ser His Glu Asp Ser Leu Thr Ser Val Ala Trp
 145 150 155 160
 Asn Pro Asp Gly Lys Arg Phe Val Thr Gly Gly Gln Arg Gly Gln Phe
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 Tyr Gln Cys Asp Leu Asp Gly Asn Leu Leu Asp Ser Trp Glu Gly Val
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 Asp Arg Asn Ile Val Gln Glu Asp His Pro Ile Met Ser Phe Thr Ile
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 Ser Lys Asn Gly Arg Leu Ala Leu Leu Asn Val Ala Thr Gln Gly Val
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Val Val Ala Ala Met Met Ile Ser Ile Val Gly Phe Leu Ser Pro Phe
 50 55 60

Asn Met Ile Leu Gly Gly Ile Val Val Val Leu Val Phe Thr Gly Phe
 65 70 75 80

Val Trp Ala Ala His Asn Lys Asp Val Leu Arg Arg Met Lys Lys Arg
 85 90 95

Tyr Pro Thr Thr Phe Val Met Val Val Met Leu Ala Ser Tyr Phe Leu
 100 105 110

Ile Ser Met Phe Gly Gly Val Met Val Phe Val Phe Gly Ile Thr Phe
 115 120 125

Pro Leu Leu Leu Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu
 130 135 140

Lys Asn Lys Leu Glu Asn Lys Met Glu Gly Ile Gly Leu Lys Arg Thr
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Asn Arg Leu Thr Asp Tyr Ile Ser Lys Val Lys Glu
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Ala Ala His Leu Asp Asn Gln Val Pro Val Glu Ser Pro Arg Ala Ile
35 40 45

Ser Arg Thr Asn Glu Asn Asp Pro Ala Lys His Gly Asp Gln His Glu
50 55 60

Gly Gln His Tyr Asn Ile Ser Pro Gln Asp Leu Glu Thr Val Phe Pro
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His Gly Leu Pro Pro Arg Phe Val Met Gln Val Lys Thr Phe Ser Glu
85 90 95

Ala Cys Leu Met Val Arg Lys Pro Ala Leu Glu Leu Leu His Tyr Leu
100 105 110

Lys Asn Thr Ser Phe Ala Tyr Pro Ala Ile Arg Tyr Leu Leu Tyr Gly
115 120 125

Glu Lys Gly Thr Gly Lys Thr Leu Ser Leu Cys His Val Ile His Phe
130 135 140

Cys Ala Lys Gln Asp Trp Leu Ile Leu His Ile Pro Asp Ala His Leu
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Trp Val Lys Asn Cys Arg Asp Leu Leu Gln Ser Ser Tyr Asn Lys Gln
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Arg Phe Asp Gln Pro Leu Glu Ala Ser Thr Trp Leu Lys Asn Phe Lys
180 185 190

Thr Thr Asn Glu Arg Phe Leu Asn Gln Ile Lys Val Gln Glu Lys Tyr
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Val Trp Asn Lys Arg Glu Ser Thr Glu Lys Gly Ser Pro Leu Gly Glu
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Val Val Glu Gln Gly Ile Thr Arg Val Arg Asn Ala Thr Asp Ala Val
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Gly Ile Val Leu Lys Glu Leu Lys Arg Gln Ser Ser Leu Gly Met Phe
245 250 255

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His Leu Leu Val Ala Val Asp Gly Ile Asn Ala Leu Trp Gly Arg Thr
 260 265 270

Thr Leu Lys Arg Glu Asp Lys Ser Pro Ile Ala Pro Glu Glu Leu Ala
 275 280 285

Leu Val His Asn Leu Arg Lys Met Met Lys Asn Asp Trp His Gly Gly
 290 295 300

Ala Ile Val Ser Ala Leu Ser Gln Thr Gly Ser Leu Phe Lys Pro Arg
 305 310 315 320

Lys Ala Tyr Leu Pro Gln Glu Leu Leu Gly Lys Glu Gly Phe Asp Ala
 325 330 335

Leu Asp Pro Phe Ile Pro Ile Leu Val Ser Asn Tyr Asn Pro Lys Glu
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Phe Glu Ser Cys Ile Gln Tyr Tyr Leu Glu Asn Asn Trp Leu Gln His
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Tyr Val Ser Ile Leu Leu Gln Ser Asp Lys Lys Leu Thr Gln Glu Gln
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Val Ser Asp Ser Gln Val Leu Ile Arg Ser Arg Val Leu Arg Glu Asn
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Gly Lys Tyr Ile Pro Lys Gln Ser Phe Leu Thr Arg Lys Tyr Tyr Phe
 65 70 75 80

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Asn Asn Pro Glu Asp Gly Phe Phe Lys Lys Thr Lys Arg Lys Val Val
85 90 95

Pro Pro Ser Pro Met Thr Asp Pro Thr Met Leu Thr Asp Met Met Lys
100 105 110

Gly Asn Val Thr Asn Val Leu Pro Met Ile Leu Ile Gly Gly Trp Ile
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Asn Met Thr Phe Ser Gly Phe Val Thr Thr Lys Val Pro Phe Pro Leu
130 135 140

Thr Leu Arg Phe Lys Pro Met Leu Gln Gln Gly Ile Glu Leu Leu Thr
145 150 155 160

Leu Asp Ala Ser Trp Val Ser Ser Ala Ser Trp Tyr Phe Leu Asn Val
165 170 175

Phe Gly Leu Arg Ser Ile Tyr Ser Leu Ile Leu Gly Gln Asp Asn Ala
180 185 190

Ala Asp Gln Ser Arg Met Met Gln Glu Gln Met Thr Gly Ala Ala Met
195 200 205

Ala Met Pro Ala Asp Thr Asn Lys Ala Phe Lys Thr Glu Trp Glu Ala
210 215 220

Leu Glu Leu Thr Asp His Gln Trp Ala Leu Asp Asp Val Glu Glu Glu
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Leu Met Ala Lys Asp Leu His Phe Glu Gly Met Phe Lys Lys Glu Leu
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Gln Thr Ser Ile Phe
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Pro Asp Asp Tyr Phe Leu Leu Arg Trp Leu Arg Ala Arg Ser Phe Asp
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Leu Gln Lys Ser Glu Ala Met Leu Arg Lys His Val Glu Phe Arg Lys
 50 55 60

Gln Lys Asp Ile Asp Asn Ile Ile Ser Trp Gln Pro Pro Glu Val Ile
 65 70 75 80

Gln Gln Tyr Leu Ser Gly Gly Met Cys Gly Tyr Asp Leu Asp Gly Cys
 85 90 95

Pro Val Trp Tyr Asp Ile Ile Gly Pro Leu Asp Ala Lys Gly Leu Leu
 100 105 110

Phe Ser Ala Ser Lys Gln Asp Leu Leu Arg Thr Lys Met Arg Glu Cys
 115 120 125

Glu Leu Leu Leu Gln Glu Cys Ala His Gln Thr Thr Lys Leu Gly Arg
 130 135 140

Lys Val Glu Thr Ile Thr Ile Ile Tyr Asp Cys Glu Gly Leu Gly Leu
 145 150 155 160

Lys His Leu Trp Lys Pro Ala Val Glu Ala Tyr Gly Glu Phe Leu Cys
 165 170 175

Met Phe Glu Glu Asn Tyr Pro Glu Thr Leu Lys Arg Leu Phe Val Val
 180 185 190

Lys Ala Pro Lys Leu Phe Pro Val Ala Tyr Asn Leu Ile Lys Pro Phe
 195 200 205

Leu Ser Glu Asp Thr Arg Lys Lys Ile Met Val Leu Gly Ala Asn Trp
 210 215 220

Lys Glu Val Leu Leu Lys His Ile Ser Pro Asp Gln Val Pro Val Glu
 225 230 235 240

Tyr Gly Gly Thr Met Thr Asp Pro Asp Gly Asn Pro Lys Cys Lys Ser
 245 250 255

Lys Ile Asn Tyr Gly Gly Asp Ile Pro Arg Lys Tyr Tyr Val Arg Asp
 260 265 270

Gln Val Lys Gln Gln Tyr Glu His Ser Val Gln Ile Ser Arg Gly Ser
 275 280 285

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Ser His Gln Val Glu Tyr Glu Ile Leu Phe Pro Gly Cys Val Leu Arg
290 295 300

Trp Gln Phe Met Ser Asp Gly Ala Asp Val Gly Phe Gly Ile Phe Leu
305 310 315 320

Lys Thr Lys Met Gly Glu Arg Gln Arg Ala Gly Glu Met Thr Glu Val
325 330 335

Leu Pro Asn Gln Arg Tyr Asn Ser His Leu Val Pro Glu Asp Gly Thr
340 345 350

Leu Thr Cys Ser Asp Pro Gly Ile Tyr Val Leu Arg Phe Asp Asn Thr
355 360 365

Tyr Ser Phe Ile His Ala Lys Lys Val Asn Phe Thr Val Glu Val Leu
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Leu Pro Asp Lys Ala Ser Glu Glu Lys Met Lys Gln Leu Gly Ala Gly
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Thr Pro Lys

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<400> 8

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20 25 30

Lys Ile Glu Gly Leu Thr Ala Glu Phe Val Asn Leu Glu Phe Leu Ser
35 40 45

Leu Ile Asn Val Gly Leu Ile Ser Val Ser Asn Leu Pro Lys Leu Pro
50 55 60

Lys Leu Lys Lys Leu Glu Leu Ser Glu Asn Arg Ile Phe Gly Gly Leu
65 70 75 80

Asp Met Leu Ala Glu Lys Leu Pro Asn Leu Thr His Leu Asn Leu Ser
85 90 95

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Gly Asn Lys Leu Lys Asp Ile Ser Thr Leu Glu Pro Leu Lys Lys Leu
100 105 110

Glu Cys Leu Lys Ser Leu Asp Leu Phe Asn Cys Glu Val Thr Asn Leu
115 120 125

Asn Asp Tyr Arg Glu Ser Val Phe Lys Leu Leu Pro Gln Leu Thr Tyr
130 135 140

Leu Asp Gly Tyr Asp Arg Glu Asp Gln Glu Ala Pro Asp Ser Asp Ala
145 150 155 160

Glu Val Asp Gly Val Asp Glu Glu Glu Glu Asp Glu Glu Gly Glu Asp
165 170 175

Glu Glu Asp Glu Asp Asp Glu Asp Gly Glu Glu Glu Glu Phe Asp Glu
180 185 190

Glu Asp Asp Glu Asp Glu Asp Val Glu Gly Asp Glu Asp Asp Asp Glu
195 200 205

Val Ser Glu Glu Glu Glu Glu Phe Gly Leu Asp Glu Glu Asp Glu Asp
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<213> Homo sapiens

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Gln Pro Pro Ala Ala Ala Pro Pro Ser Ala Val Gly Ser Ser Ala Ala
35 40 45

Ala Pro Arg Gln Pro Gly Leu Met Ala Gln Met Ala Thr Thr Ala Ala
50 55 60

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Gly Val Ala Val Gly Ser Ala Val Gly His Thr Leu Gly His Ala Ile
65 70 75 80

Thr Gly Gly Phe Ser Gly Gly Ser Asn Ala Glu Pro Ala Arg Pro Asp
85 90 95

Ile Thr Tyr Gln Glu Pro Gln Gly Thr Gln Pro Ala Gln Gln Gln Gln
100 105 110

Pro Cys Leu Tyr Glu Ile Lys Gln Phe Leu Glu Cys Ala Gln Asn Gln
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1150

1155

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